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PA 1/30/03

Attorney Docket No.: NVID-P000047

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent

In re Application of:

Inventor(s): James Lewis van Welzen, Brian Dennis Falardeau and Jonathan Barton White

Serial No.: 09/995377

Examiner:

Filed: 11/26/01

Art Unit:

For: METHOD AND SYSTEM FOR DVD SINGLE FRAME STEPPING BACKWARDS

Patent No.:

Issued Date:

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DEC 18 2002

Technology Center 2100

Assistant Commissioner for Patents
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**

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As assignee of record of the entire interest of the above identified
☒ application,
☐ patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following attorney(s) and/or agents(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected herewith.

James P. Hao	Registration No.: 36,398
Anthony C. Murabito	Registration No.: 35,295
John P. Wagner	Registration No.: 35,398
Glenn D. Barnes	Registration No.: 42,293
Thomas M. Catale	Registration No.: 46,434
Jose S. Garcia	Registration No.: 43,628
Eric J. Gash	Registration No.: 46,274
Lin C. Hsu	Registration No.: 46,315
Ronald M. Pomerence	Registration No.: 43,009
John F. Ryan	Registration No.: 47,050
Matthew J. Blecher	Registration No.: 46,558
Lawrence R. Goerke	Registration No.: 45,927
Reginald A. Ratliff	Registration No.: 48,098

<u>William A. Zarbis</u>	Registration No.: <u>46,120</u>
<u>Mehlin Dean Matthews</u>	Registration No.: <u>46,127</u>
<u>Joel D. Youngs</u>	Registration No.: <u>52,389</u>
<u>Stephen H. Pettigrew</u>	Registration No.: <u>35,978</u>
<u>Jerome Duluk, Jr.</u>	Registration No.: <u>50,694</u>
<u>Paul Carmichael</u>	Registration No.: <u>18,679</u>

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Anthony C. Murabito
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Nvidia Corporation
(type or print identity of assignee of entire interest)

2701 San Tomas Expressway
Santa Clara, CA 95050
Address

☒ Recorded in PTO on 04/17/02
Reel 012846
Frame 0069

☐ Recorded herewith

ASSIGNEE CERTIFICATION

Attached to this power is a "CERTIFICATE UNDER 37 CFR 3.73(b)"

12/06/02
Date

David M. Shannon
Signature

David M. Shannon
(type or print name of person authorized to sign on behalf of assignee)

Vice President and General Counsel
Title



Docket No.: NVID-P000047
Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: van Welzen et al.)

Serial No.: 09/995,377)

Filing Date: 11/26/01)

For: METHOD AND SYSTEM FOR DVD SINGLE)
FRAME STEPPING BACKWARDS)

CERTIFICATE UNDER 37 CFR 3.73(b)

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DEC 18 2002

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NVIDIA, a corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

☒ An assignment from the inventor(s) of the patent application identified above. A copy of the assignment is attached.

☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel: _____, Frame: _____, or for which a copy thereof
is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel: _____, Frame: _____, or for which a copy thereof
is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel: _____, Frame: _____, or for which a copy thereof
is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) avers that the undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine

or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

12/06/12
Date

David M. Shannon
Signature

David M. Shannon
Typed or Printed Name

Vice President and General Counsel
Title

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **James Lewis van Welzen, Brian Dennis Falardeau and Jonathan Barton White** do hereby sell, assign, and transfer unto **NVIDIA Corporation**, a corporation organized and existing under the laws of the State of Delaware, having a principal place of business at **2701 San Tomas Expressway, Santa Clara, CA 95050** ("Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

☐ which has been executed by the undersigned concurrently herewith,

☒ which was filed on November 26, 2001 and assigned Serial No. 09/995,377,

and is entitled:

METHOD AND SYSTEM FOR DVD SINGLE FRAME STEPPING BACKWARDS

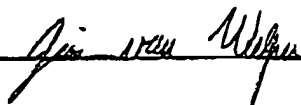
and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Signed:

James Lewis van Welzen:



Date:

4/16/02

Brian Dennis Falardeau:

Date:

Jonathan Barton White:

Date:

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **James Lewis van Welzen, Brian Dennis Falardeau and Jonathan Barton White** do hereby sell, assign, and transfer unto **NVIDIA Corporation**, a corporation organized and existing under the laws of the State of Delaware, having a principal place of business at **2701 San Tomas Expressway, Santa Clara, CA 95050** ("Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

[] which has been executed by the undersigned concurrently herewith,

[X] which was filed on November 26, 2001 and assigned Serial No. 09/995,377,

and is entitled:

METHOD AND SYSTEM FOR DVD SINGLE FRAME STEPPING BACKWARDS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Signed:

James Lewis van Welzen: _____

Date: _____

Brian Dennis Falardeau: B. D. Falardeau

Date: 4/15/2002

Jonathan Barton White: _____

Date: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **James Lewis van Welzen, Brian Dennis Falardeau and Jonathan Barton White** do hereby sell, assign, and transfer unto **NVIDIA Corporation**, a corporation organized and existing under the laws of the State of Delaware, having a principal place of business at **2701 San Tomas Expressway, Santa Clara, CA 95050** ("Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

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and is entitled:

METHOD AND SYSTEM FOR DVD SINGLE FRAME STEPPING BACKWARDS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Signed:

James Lewis van Welzen: _____

Date: _____

Brian Dennis Falardeau: _____

Date: _____

Jonathan Barton White: *JBW*

Date: 4/16/2002